

Amendment and Response

Applicant: Gordon J. Smith
Serial No.: 09/886,566
Filing Date: June 21, 2001
Docket No.: ROC0-2000-0206-US1
Title: METHOD OF BURNISHING A BURNISHABLE REAR PAD SLIDER IN A DISK DRIVE

3. The method of claim 1, wherein the rear pad defines a leading surface, a trailing surface, opposing side surfaces, and a bottom surface opposite a support body of the slider, and further wherein radially moving the rear pad includes alternately contacting the opposing side surfaces against the disk surface.

4. The method of claim 3, wherein imparting a positive camber includes forming at least a portion of each of the opposing side surfaces to be non-perpendicular relative to the bottom surface.

5. The method of claim 4, wherein imparting a positive camber includes blending each of the opposing side surfaces relative to the bottom surface.

6. The method of claim 4, wherein a width of the rear pad is defined by a distance between the opposing sides, and further wherein imparting a positive camber includes establishing a minimum width of the rear pad at the bottom surface.

7. The method of claim 3, wherein following burnishing the opposing side surfaces are non-symmetrical.

8. The method of claim 1, wherein radially moving the slider relative to the disk surface includes radially accelerating the slider relative to the disk surface.

9. The method of claim 1, further comprising:
moving the slider tangentially relative to the disk surface, causing the rear pad to rock longitudinally.

10. The method of claim 9, further comprising:
correlating radial slider movement and tangential slider movement to optimize a shape of the rear pad following burnishing.

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11. The method of claim 1, wherein radially moving the slider includes operating the actuator assembly in a first operational state when a height of the rear pad is relatively large and in a second operational state when the height is reduced, and further wherein the first operational state differs from the second operational state by at least one of radially slider velocity, radial slider acceleration, radial slider travel distance, and tangential slider velocity.

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12. The method of claim 11, wherein the first operational state is characterized by an initial stage of burnishing and the second operational state is characterized by a final stage of burnishing, and further wherein the slider is moved a shorter radial distance in the second operational state as compared to the first operational state.

13. The method of claim 12, further comprising:
establishing parameters of the first operational state and the second operational state prior to radially moving the slider.

14. The method of claim 1, wherein the rear pad is burnished in-file.

15.(Cancelled)

16.(Cancelled)

17.(Cancelled)

18.(Cancelled)

19.(Cancelled)

20.(Cancelled)